

Description of the Several Views of the Drawing (s):

Fig. 1 Show a side evaluation view of the pre - filtering device with its specifications

Fig. 2 Is a side evaluation view showing the embodiment of the invention

Fig. 3 This is a view showing a one - piece housing and flange for mounting on an outside wall with the tab for releasing the filter.

Fig. 4 Is showing a rear view that's placed against the wall for mounting as well as the groove in the inverted flange.

Fig. 5 This is the same as figure No. 4 showing the inverted flange and depth of the intake opening

Fig. 6 Shows a side evaluation view of how the filter is installed and uninstalled with a view of the filter and screen with it's raised pattern grill.

Drawings previously submitted and accepted.

Detailed Description of Invention:

As shown in the drawings, a fresh air intake pre - filtering device is made as a one piece, polyethylene injected molded vent adapted to be mounted on an outside wall of a building. The vent has a planar base (1) with an opening, and an integrally connected inverted flange around the opening. The inverted flange (5) is inverted in such a manner that it creates a circumferential groove open towards the wall. A fresh air conduit which is inserted into a fresh air intake opening in the building wall is placed in the groove allowing the vent to be flush mounted on the wall.

A weather protecting housing (2) or hood protrudes from the base above the opening and the inverted flange and has at its facing downwardly open end a screen and a filter (8), both easily removable for cleaning. The screen and filter are placed in a seat (4) molded in the opening or the hood and are easily released and removed by pulling a

pull tab (3) at the front and of the seat. In order to reinstall the filter and screen, both of them should be inserted towards the back end of the seat and placed at 120 degree angle on two rear tabs then the front should be raised to achieve horizontal position of the filter and screen locking the latter tight in the seat. The requirements for the filter (8) are the following: a frame of the filter and the screen (9) have to be made of a corrosion and moisture resistant material, and having low initial pressure resistant since filters have tendency to freeze up.

The best combustion to accomplish desired filtering and fresh air supplying action consists to the following:

- an aluminum frame, e.g. 7.5" by 8.0", enclosing a screen made as a two sided raised pattern grill;

- a filter made of 100% synthetic fiber;

- 0.06 w.g. initial pressure resistance at 100cfm.

The raised pattern grill allows the frost to build up, keeping it off the filter and at the same time leaving openings for the air to flow through.

The venting and filtering device can be installed in a new system as well as in existing one after an existing rain cap is removed

The filter may be made from a material distributed in Canada and U. S .A. under the trade name RX PolyMed.

The Embodiments of The Invention are Defined as Follows:

Claim 1 -(Currently amended) A pre-filtering device for removing contaminants from fresh air supplied to a forced air heating circulating system in a building comprising:

a one piece polypropylene molded vent having a planar base installed on an outside surface of the building, the base having a circular opening and an inverted flange along the circumference of the opening, the inverted flange protruding outwardly from the base, and thereafter inwardly creating a circumferential groove opened toward the wall to accommodate a fresh air supply